

Carl Michael Smith Assistant Secretary Office of Fossil Energy

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Meeting the President's Priorities







Developing Pollution Controls

Clean Coal Research Initiative
Advancing
Power Efficiency

Ensuring Power Reliability

Gas Supply R&D
Diversifying U.S.
Resources

Carbon Sequestration
Providing New,
Affordable CO2 Options

Gas Supply R&D
Exploring the
Potential of Hydrates

Hydrogen from CoalSupplying Tomorrow's Clean Fuels

Fuel Cell R&D — Enabling Distributed Generation

Oil R&D

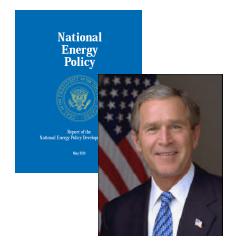
Sequestering CO2 in Oil Fields

Preserving U.S. Production

Strategic Petroleum/ Heating Oil Reserves Protecting Consumers

FY 2005 Budget Request





Protecting the Future of Coal

A Commitment to Clean, Affordable Power from **America's Most Abundant Energy Resource**

The President's Coal Research Initiative

✓ FY05 Budget Increases to \$447 Million

Represents a nearly 40% increase over FY04 request

Under President Bush's tenure, budget requests for coal R&D have more than doubled over historical figures¹

Appropriations for coal R&D are poised to double over historical figures² as well

¹ Compared to budget requests for the period FY98-FY01

² Assumes FY05 budget request is the amount appropriated



The President's Coal Research Initiative



"Today I am pleased to announce that the United States will sponsor a \$1 billion, 10-year demonstration project to create the world's first coal-based, zero-emissions electricity and hydrogen power plant..."

> President George W. Bush February 27, 2003

FutureGen

- ✓ 275 MW Emission-free, Coal-fired Power and Hydrogen Production Plant Supported by R&D efforts in carbon sequestration, hydrogen and oxygen separation, advanced turbines, fuel cells, and gasification-related technologies
- ✓ FY05 Plan: Consortium will begin site selection process and secure environmental permits





The President's Coal Research Initiative

A Commitment to Clean, Affordable Power from America's Most Abundant Energy Resource

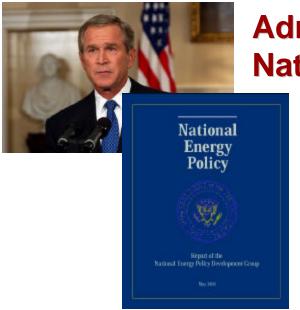
Clean Coal Power Initiative

- ✓ Round 1 Competition: 8 Projects, \$1.3 Billion (\$1B private/\$300M public)
 Emphasis: Pollution controls, efficiency improvements for existing plants
- ✓ Round 2 Competition: Solicitation (early 2004)
 Emphasis: Next generation coal-fired power plants (e.g., gasification combined cycle, carbon sequestration, etc.)

Supporting Coal R&D

- ✓ Innovations for Existing Plants: Improved, lower cost *Clear Skies* technologies
- ✓ Clean Power Systems: Advanced, high efficiency systems for emission-free power plants (e.g., gasification combined cycle, multi-fuel turbines)
- ✓ Advanced Research: New materials, computational technologies, etc.





Administration Actions Addressing Natural Gas Supplies

- ✓ Completed National Energy Policy in May 2001
- ✓ Supporting comprehensive energy legislation
- ✓ Facilitating expedited regulatory reviews for new natural gas supplies
- ✓ Initiated natural gas Summits and implementation for short-term response, Summer 2003
- √ Convened LNG Summit in December, 2003
- ✓ Focusing on Rocky Mountain region (primer, permitting, resource assessment, pipeline expediting, etc.)





Petroleum Reserves

Maintaining America's Energy Readiness

Strategic Petroleum Reserve

✓ Filling America's Oil Stockpile to Record Levels

Currently approaching 640 million barrels (highest level ever)

FY 2005 Plan: Continue "royalty-in-kind" program with goal to fill SPR to full 700 million barrel capacity by December 2005

Northeast Home Heating Oil Reserve

✓ Ready to Respond to Fuel Oil Emergencies in the Northeast

Currently with 2 million barrels of heating oil at leased commercial terminals Implemented new online "auction" system to expedite bidding process

FY 2005 Plan: Maintain readiness while reducing costs (\$3 million cost savings by recompeting terminal contracts)

Naval Petroleum Reserve

FY 2005 Plan: Continue to operate NPR #3 -Teapot Dome; intend to transfer NPR #2 (California) to the Department of the Interior

FOSSIL ENERGY

FY 2005 Budget Request



		(Dollars in Thousands)
		FY2005
		Request
	President's Coal Research Initiative	•
	Clean Coal Power Initiative	\$287,000
	Other Coal Power R&D (Central Systems)	64,500
	Sequestration	49,000
Research	Coal-to-Hydrogen	16,000
and	Advanced Research	30,500
Development		
•	Fuel Cells	\$23,000
	Natural Gas	\$26,000
	Oil Technology	\$15,000
	Other R&D/Prog. Direction/Equipment	\$124,799
	Total, Research and Development	\$635,799
	Strategic Petroleum Reserve – Facilities	\$172,100
Petroleum	Home Heating Oil Reserve	5,000
Reserves	Naval Petroleum Reserves/Elk Hills School Lands	56,000
	Total, Petroleum Reserves	\$233,100